## IVANHOE LETTER OF MAP REVISION

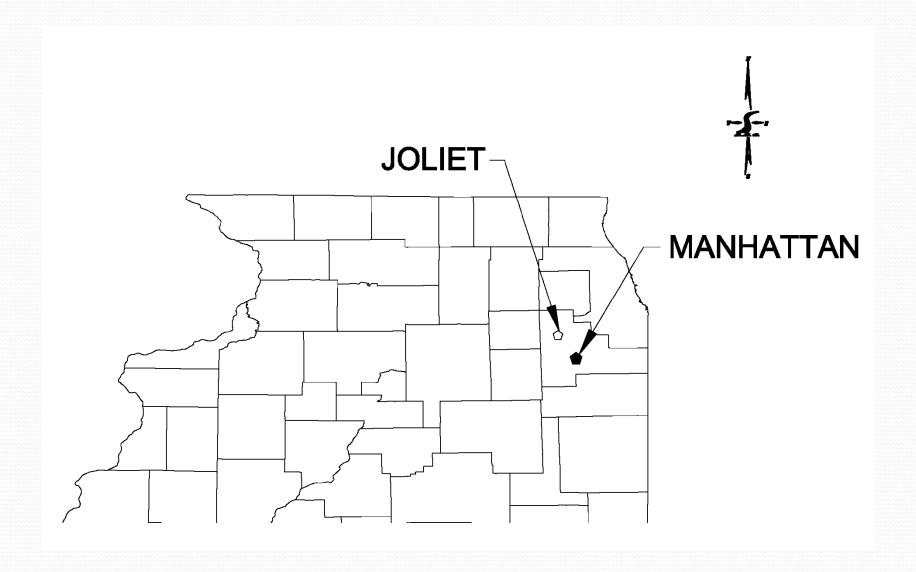
PRESENTED BY SEC GROUP, INC

RALPH STARK, P.E., CFM

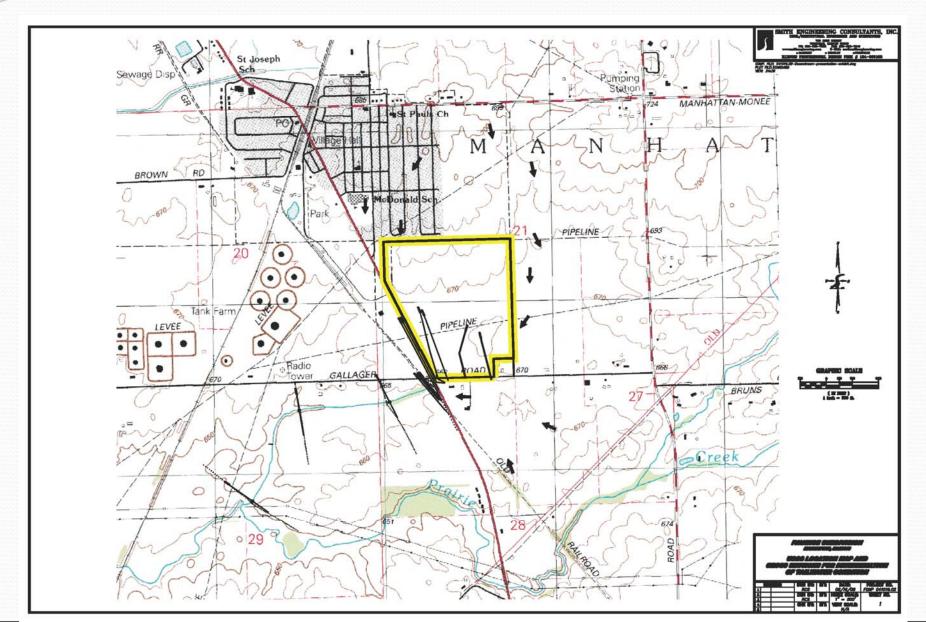
## INTRO TO SEC GROUP, INC.

- Established in 1981
- 4 Office Locations:
  - McHenry, Yorkville, New Lenox, Chicago
- 121 Full-Time Employees,
- 47 Licensed Professional Engineers
- Specializes in:
  - Transportation, Structures
  - Municipal,
     Land Development,
  - Water Resources, Water/Wastewater,
  - Planning,
     Landscape Architecture
  - Surveying, Construction Engineering

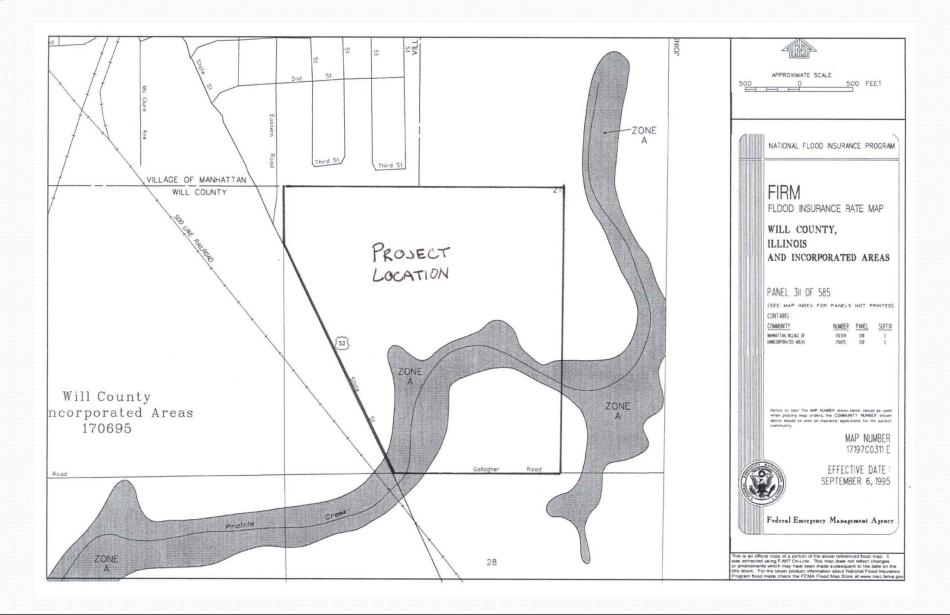
## PROJECT LOCATION

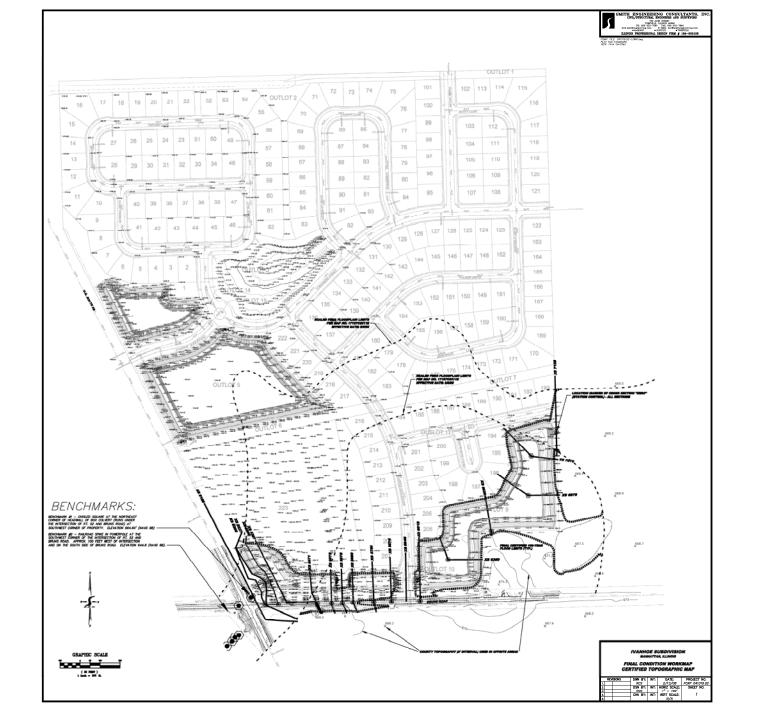


### PROJECT LOCATION

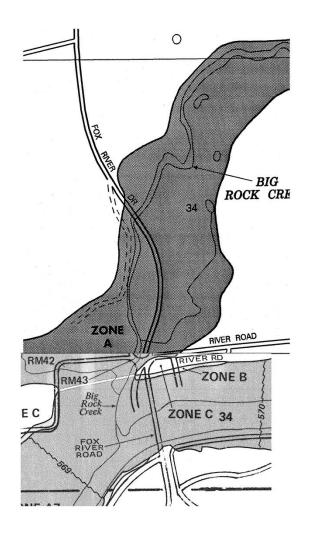


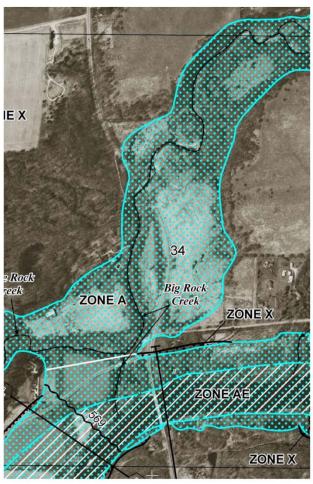
### ORIGINAL FIRM





## TYPES OF FLOODPLAIN

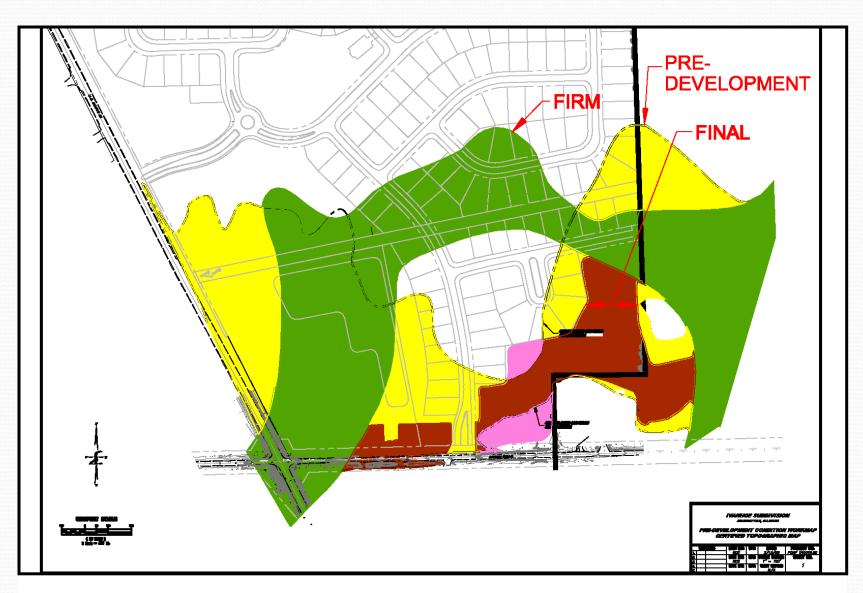




### PHASES OF MAP REVISION

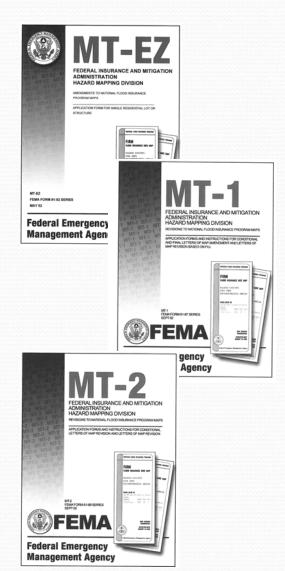
- Effective Physical Map, Paper Copy of Model
- Duplicate Effective Recreation of Effective Model,
- Corrected Effective Modified based upon new survey
- Pre-Project; and
- Post Project

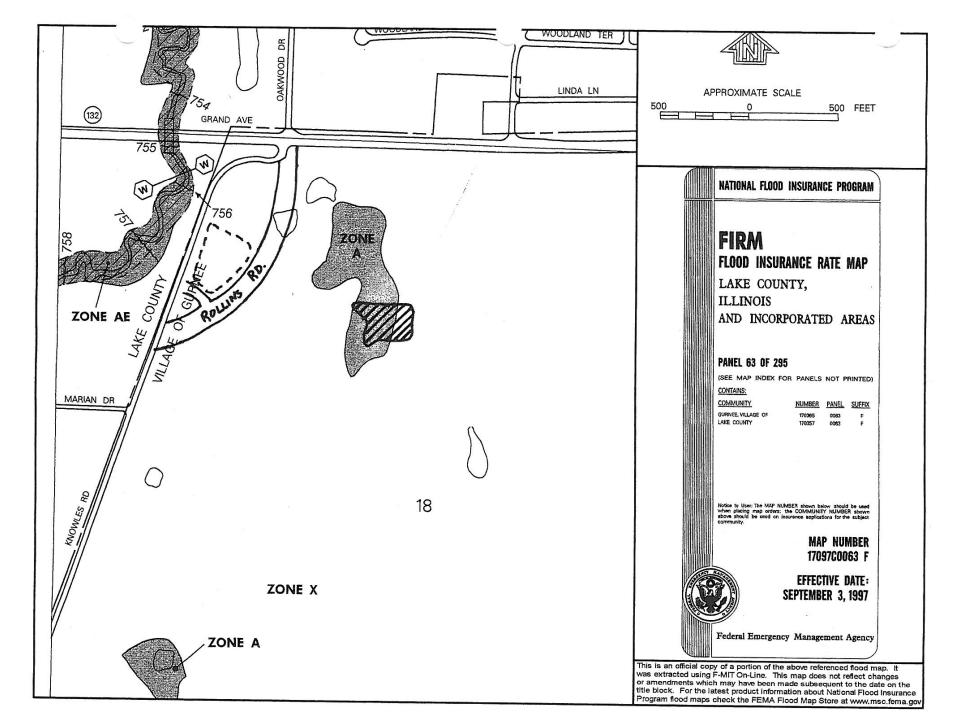
## EFFECTIVE, PRE-PROJECT & POST-PROJECT FLOODPLAIN



### TYPES OF MAP CHANGES

- ❖LOMA: Corrections to floodplain boundary based upon better topography, no change in BFE (Required Forms MT-EZ, MT-1)
- CLOMR-F/LOMR-F: Changes to floodplain boundary based on fill, no change to BFE (Required Forms MT-1)
- CLOMR/LOMR: Changes to floodplain boundary based upon physical modification to BFE, channel and/or floodway boundary (Required Forms MT-2)





# MT-2 FORM 1 (OVERVIEW & CONCURRENCE)

- Project located in Village of Manhattan and unincorporated Will County
- Zone A Floodplain
- Basis of Revisions (Physical Change, Improved Methodology)
- Types of Flooding: Riverine
- \* Structures: Channelization, Bridge/Culvert
- Signed off By Applicant/Client, Village, County, and Engineer

## MT-2 FORM 2 (HYDROLOGY & HYDRAULICS) – SECTION A

#### **Hydrology**

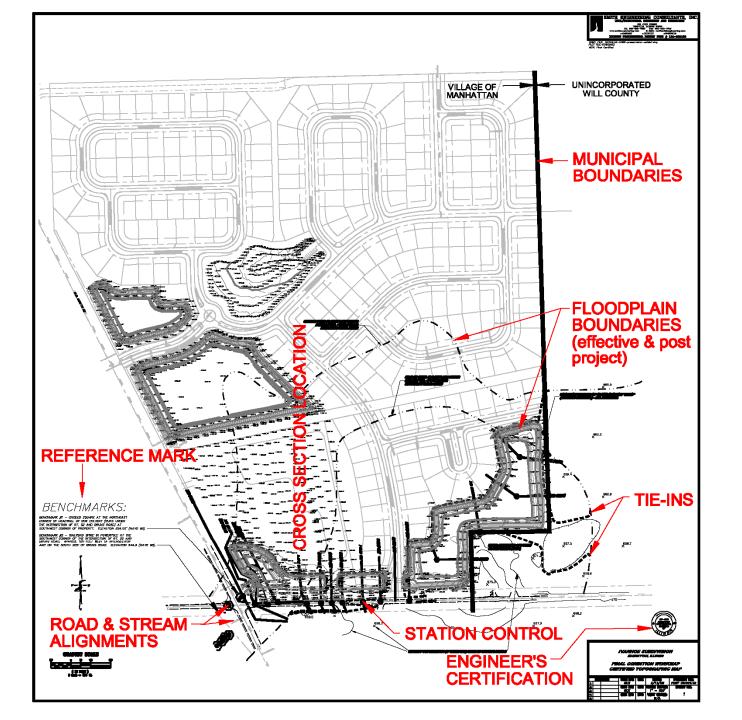
- \* Reasons for Doing A Hydrologic Model: No Existing Hydrology, Changed Physical Condition (detention basin, new developments, etc.)
- Comparison of Flow: Modified Form to provide Pre and Post Development Flow. (100 year flow reduced from 1423 cfs to 683 cfs)
- Precipitation Model Used: HEC 1 (Watershed = 0.88 sq.mi)
- Review Approval by IDNR-OWR: Not Required because watershed is under 640 Acres (i.e. < 1.0 Sq.Mi)

#### MT-2 FORM 2 (HYDROLOGY & HYDRAULICS) – SECTION B

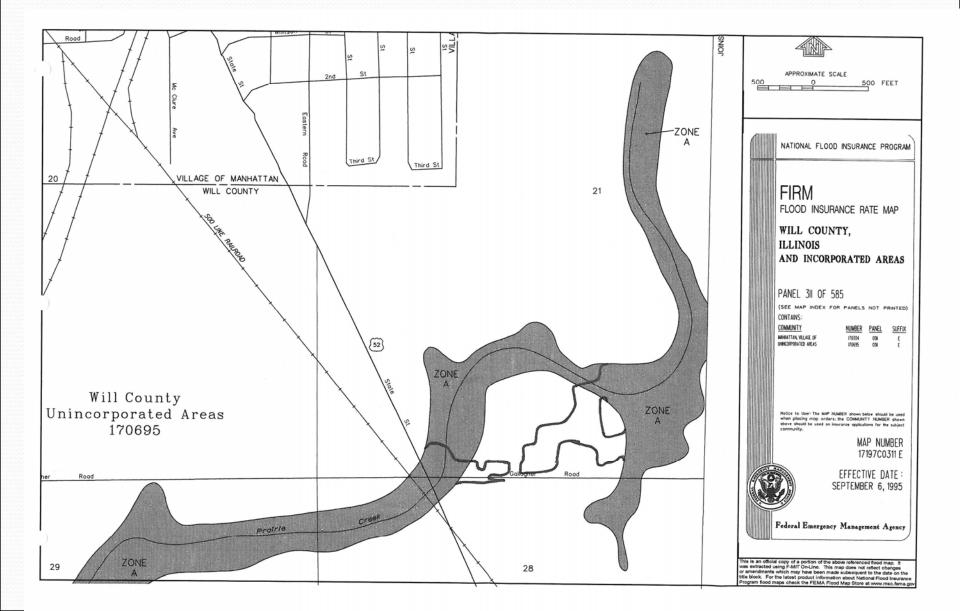
**Hydraulics** 

❖Method Used: HEC-RAS

Models Submitted: Pre-Project and Post-Project (No Effective or Duplicate Effective Models in Zone A)



### ANNOTATED FIRM



## MT-2 FORM 2 (HYDROLOGY & HYDRAULICS) - SECTION D, COMMON REGULATORY REQUIREMENTS

#### Item 1

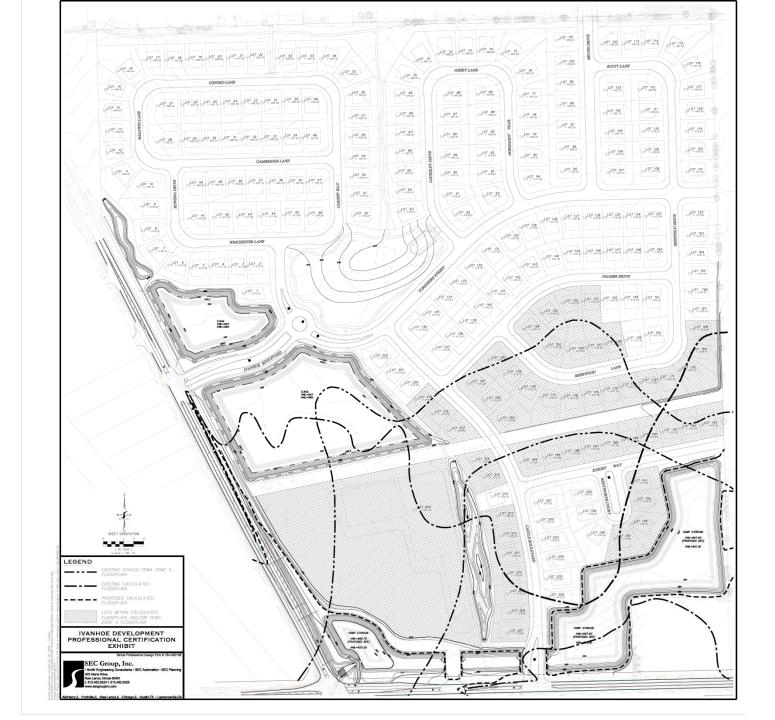
- No man-made increase in BFE in Floodway. Up to 1.0' increase allowed in Zone A
- ❖ If BFE increase exceeds above limits, the project must comply with CFR 65.12 as follows:
  - Submit a request for CLOMR
  - Submit Alternative Evaluation
  - Individual legal notice to all impacted property owners
  - Concurrence from other impacted communities
  - Certification of no impact to structures
  - ❖ A request for BFE revision and/or floodway revision
  - Adoption of floodplain management ordinance incorporating the increased BFE and/or revised floodway
  - Submit As-Built Certification

## MT-2 FORM 2 (HYDROLOGY & HYDRAULICS) - SECTION D, COMMON REGULATORY REQUIREMENTS

#### Item 2

Placement of Fill ("Reasonably Safe from Flooding"
 Certification Required) - Technical Bulletin 10-01

MT-1 Form 3 for Community Certification of Fill

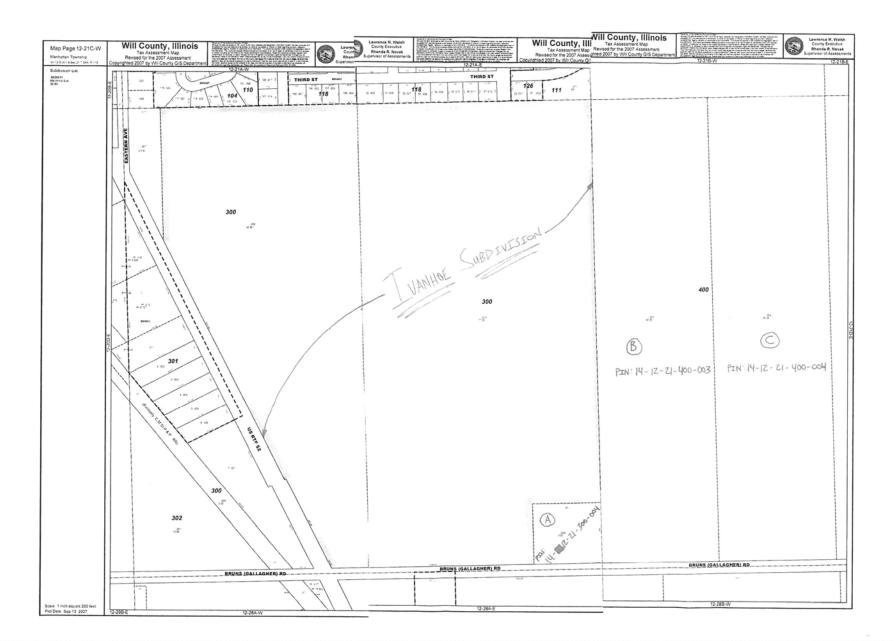


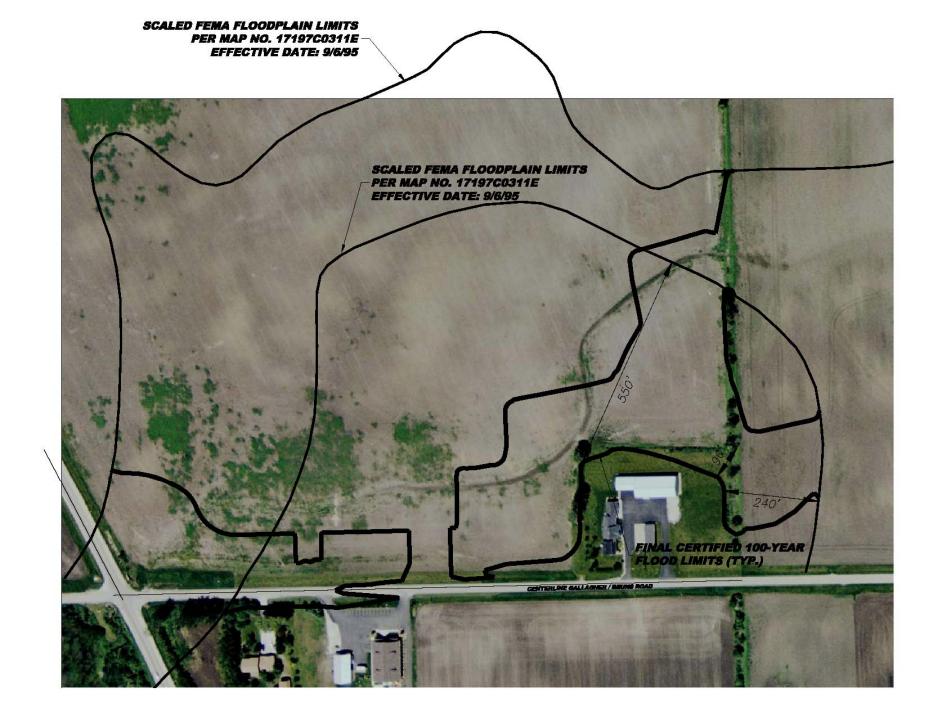
Project Name and Address:	
I,development is reasonably safe fr FEMA's Technical Bulletin 10-0 flooding and in accordance with ac	certify that the design for the aforementioned from flooding in accordance with the guidance provided within 1 related to ensuring that structures are reasonably safe from accepted professional practices.
Signature	Date
Title	
Type of License	License Number
Address and Phone	
Professional Seal	

to be above BFE    183	Lot Number	BFE	Foundation per SEC plan	Difference between A	linimum floor elevation of 4' deep English or Bi-Level Basement	Minimum floor elevation of standard 8' basement	Minimum floor elevation of 9' basement
1	Palmer Drive						
192   963   976   97   97   97   97   97   97   9	151	668.0		8.2	672.2	668.2	Raise TF to 677.0 for Minimum Basement of 668.0
154	152	668.0	676	8.0	672	668	Raise TF to 677.0 for Minimum Basement of 668.0
150   150	153	668.0	676	8.0	672	668	Raise TF to 677.0 for Minimum Basement of 668.0
150		668.0	676.1	8.1	672.1	668.1	Raise TF to 677.0 for Minimum Basement of 668.0
196	Sherwood Lane						
153   158	155	668.0	676.3	8.3	672.3	668.3	Raise TF to 677.0 for Minimum Basement of 668.0
188 680 676 90 0772 9.2 675.2 689.2 689.2 689.2 689.2 689.2 689.4 689.6 689.6 689.0 689.4 689.0 689.4 689.0 689.4 689.0 689.4 689.0 689.4 689.0 689.4 689.2 689.2 689.2 689.2 689.3	156	668.0	676.6	8.6	672.6	668.6	Raise TF to 677.0 for Minimum Basement of 668.0
100	157	668.0	676.9	8.9	672.9	668.9	Raise TF to 677.0 for Minimum Basement of 668.0
190	158	668.0	677.2	9.2	673.2	669.2	668.2
171	168	668.0	678	10.0	674	670	669
171	169	668.0	678.7	10.7	674.7	670.7	669.7
172   680   677   676   676   673   673   673   680   673   680   673   680   673   680   673   680   673   680   673   680   673   673   680   673   680   673   680   673   680   673   680   673   680   673   680   673   680   673   673   680   673   680   673   673   673   680   673   673   673   680   673	170	668.0	678.7	10.7	674.7	670.7	669.7
172		668.0	678.3	10.3	674.3	670.3	669.3
174	172	668.0	677.6	9.6	673.6	669.6	668.6
175   689   677   90   673   689   689   689   689   689   676   70   689   675   689   676   689   676   680   676   680   676   680   676   680   676   680   676   680   676   680   675   7.7   671   7.8	173	668.0	677.5	9.5	673.5	669.5	668.5
176   688   676   676   82   672   2   682   672   2   683   683   672   83   683   672   83   683   672   83   683   672   683	174	668.0	677.5	9.5	673.5	669.5	668.5
177   688   676   80   676   80   677   77   671   7		668.0	677	9.0	673	669	668
178   688   687   77   77   77   77   77	176	668.0	677	9.0	673	669	668
179   683 0   675 7   77   671   7	177	668.0	676.2	8.2	672.2	668.2	Raise TF to 677.0 for Minimum Basement of 668.0
181   688   687   675   7.2   671   7.2	178	668.0	676	8.0	672	668	Raise TF to 677.0 for Minimum Basement of 668.0
Raise   Text    Section	179	668.0	675.7	7.7	671.7	Raise TF to 676.0 for Minimum Basement of 668.0	Raise TF to 677.0 for Minimum Basement of 668.0
Raise   File   GR   GR   GR   GR   GR   GR   GR   G	180	668.0	675.3	7.3	671.3	Raise TF to 676,0 for Minimum Basement of 668,0	Rajas TF to 677.0 for Minimum Basement of 668.0
181							
181	Castle Boulevard (	East Side)					
Raise   Fr to 677.0 for Minimum Bessement of 688.0   674.5   675   670.5   Raise   Fr to 678.0 for Minimum Bessement of 688.0   674.5   675   671.6   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.6   671.8   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.6   671.8   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.6   7.6   671.8   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.6   7.6   671.8   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.5   671.5   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.5   671.5   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.6   671.8   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.6   671.8   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.6   671.6   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.6   671.6   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.6   671.6   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.6   671.6   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.6   671.6   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.6   671.6   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.6   671.6   Raise   Fr to 678.0 for Minimum Bessement of 688.0   675.8   7.7   671.8   Raise   Fr to 678.0 for Minimum Bessement of 688.0   676.8   8.5   672.3   688.1   688			675.2	7.2	671.2	Raise TF to 676.0 for Minimum Basement of 668.0	Raise TF to 677.0 for Minimum Basement of 668.0
Raise TF to 678,0 For Minimum Basement of 668,0   To be above BFE	182	668.0	674.7	6.7	670.7	Raise TF to 676.0 for Minimum Basement of 668.0	TF Must be raised more than 2' for Basement to be above BFE
Raise   Te to 675.0 for Minimum Basement of 688.0   Raise   Te to 675.0 for Minimum Basement of 687.3   Raise   Te to 675.0 for Minimum Basement of 687.3   Raise   Te to 675.0 for Minimum Basement of 687.3   Raise   Te to 675.0 for Minimum Basement of 687.3   Raise   Te to 675.0 for Minimum Basement of 687.3   Raise   Te to 675.0 for Minimum Basement of 687.3   Raise   Te to 67	183	668.0	674.5	6.5	670.5	Raise TF to 676.0 for Minimum Basement of 668.0	TF Must be raised more than 2' for Basement
194   688 0   675 6   76   671 6   6	L/pight \Mou						to be above by E
185   688 0   675 8   7.8   671 8   7.8   7.8   671 8   7.		668.0	675.6	7.6	671.6	Palse TE to 676 0 for Minimum Resement of 668 0	Pales TE to 677 0 for Minimum Resement of 669 0
186   68.0   675.6   7.6   671.6   6							
187   688 0   675 6   7.6   671 6   671 6   Raise TF to 676.0 For Minimum Basement of 688.0   Raise TF to 677.0 For Minimum Basement of 688.0   188   688 0   675.8   7.8   671 8   Raise TF to 676.0 For Minimum Basement of 688.0   Raise TF to 677.0 For Minimum Basement of 688.0   Raise TF to 678.3 For Minimum Basement of 687.3   Raise TF to 678.3 For Minimum Basement of 687.3   Raise TF to 678.3 For Minimum Basement of 687.3   Raise TF to 678.3 For Minimum Basement of 687.3   Raise TF to 678.3 For Minimum Basement of 687.3   Raise TF to 678.3 For Minimum Basement of 687.3   Raise TF to 678.0 For Minimum Basement of 687.3   Raise TF to 67							
188   688 0   675.5   7.5   671.5   671.5   Raise TF to 678.0 for Minimum Basement of 688.0   Raise TF to 677.0 for Minimum Basement of 688.0   189   688 0   675.6   7.6   671.6   671.6   Raise TF to 675.0 for Minimum Basement of 688.0   Raise TF to 677.0 for Minimum Basement of 688.0   Raise TF to 677.0 for Minimum Basement of 688.0   Raise TF to 677.0 for Minimum Basement of 688.0   Raise TF to 677.0 for Minimum Basement of 688.0   Raise TF to 677.0 for Minimum Basement of 688.0   Raise TF to 677.0 for Minimum Basement of 688.0   Raise TF to 677.0 for Minimum Basement of 688.0   Raise TF to 677.0 for Minimum Basement of 688.0   Raise TE to 677.0 for Minimum Basement of 689.0   Raise TE to 678.3 for Minimum Basement of 689.0   Raise TE to 678.3 for Minimum Basement of 689.0   Raise TE to 678.3 for Minimum Basement of 687.3   Raise TE to 678.3 for Minimum Basement of 687.3   Raise TE to 678.3 for Minimum Basement of 687.3   Raise TE to 678.3 for Minimum Basement of 687.3   Raise TE to 678.3 for Minimum Basement of 687.3   Raise							
189							
190   688   675   7.6   671   671   671   671   671   672   7.6   683   675   7.6   683   675   7.5   683   673   7.5   683   672   683   673   683   673   675   7.5   683   672   683							
191							
192   668 0 676   8.0   673   5.1   669.1   TMUST be raised more than 2' for Basement to be above BFE   To 673.0 for Minimum Basement of 688.0   193   688 0 676.1   8.1   671.85   Raise TF to 675.0 for Minimum Basement of 689.0   196   688 0 676.1   8.1   672.1   688.3   688.3   688.3   688.9   197   688.0   676.5   8.5   672.5   688.5   688.3   Raise TF to 677.0 for Minimum Basement of 689.0   197   688.0   676.5   8.5   672.5   688.5   688.3   Raise TF to 677.0 for Minimum Basement of 689.0   197   688.0   676.5   8.5   672.5   688.5   688.3   Raise TF to 677.0 for Minimum Basement of 689.0   197   688.0   676.5   8.5   672.5   688.5   688.3   Raise TF to 677.0 for Minimum Basement of 689.0   197   688.0   676.5   8.5   672.5   688.5   688.5   Raise TF to 677.0 for Minimum Basement of 689.0   197   688.0   676.5   8.5   671.5   7.8   671.75   7.8   671.8   687.9   8.6   671.8   687.9   8.6   671.9   687.3   675.3   6							
TF Must be raised more than 2' for Basement to be above BFE   TF Must be raised more than 2' for Basement to be above BFE							
193   688.0   673.1   5.1   669.1   10   10   10   10   10   10   10	192	0.800	0/0	8.0	012		
194   688 0   675.85   7.9   671.85   Ralse TF to 676.0 for Minimum Basement of 668.0   Ralse TF to 677.0 for Minimum Basement of 688.0   195   688.0   676.3   8.3   672.3   668.3   Ralse TF to 677.0 for Minimum Basement of 689.0   197   688.0   676.5   8.5   672.5   668.5   Ralse TF to 677.0 for Minimum Basement of 689.0   Ralse TF to 677.0 for Minimum Basement of 689.0   Ralse TF to 677.0 for Minimum Basement of 689.0   Ralse TF to 677.0 for Minimum Basement of 689.0   Ralse TF to 677.0 for Minimum Basement of 689.0   Ralse TF to 677.0 for Minimum Basement of 689.0   Ralse TF to 677.0 for Minimum Basement of 689.0   Ralse TF to 677.0 for Minimum Basement of 689.0   Ralse TF to 677.0 for Minimum Basement of 689.0   Ralse TF to 678.3 for Minimum Basement of 689.0   Ralse TF to 678.0 for Minimum Basement of 689.0   Ralse TF to 678.0		668.0	673.1	5.1	669.1		
195   668 0   676 1   8.1   672.1   672.1   668 1   Raise   Tr to 677.0 for Minimum Basement of 688.0   197   668 0   676 5   8.5   672.5   668 5   Raise   Tr to 677.0 for Minimum Basement of 688.0   197   668 0   676 5   8.5   672.5   668 5   Raise   Tr to 677.0 for Minimum Basement of 688.0   197   668 0   676.5   8.5   671.5   8.5   671.8   667.8   667.8   667.8   667.8   667.8   667.8   667.9   667.3   675.5   8.2   671.5   667.5   667.5   667.3   675.5   8.2   671.5   667.3   667.3   675.3   675   7.7   671   Raise   Tr to 676.3 for Minimum Basement of 687.3   667.3   667.3   675.3   8.0   671.3   667.3   667.3   667.3   667.3   675.3   67							
196							
197   668 0   676.5   8.5   672.5   668.5   Raise TF to 677.0 for Minimum Basement of 688.0							
Castle Boulevard (West Side)   206   668.0   675.75   7.8   671.75   7.8   671.75   7.8   671.75   7.8   671.8   667.8   667.8   667.8   667.8   667.8   667.8   667.8   667.8   667.9   667.3   675.9   8.6   671.9   667.9   667.5							
206   668.0   675.75   7.8   671.75   Raise TF to 676.0 for Minimum Basement of 689.0   Raise TF to 677.0 for Minimum Basement of 689.0   Raise TF to 677.3 for Minimum Basement of 689.0   Raise TF to 676.3 for Minimum Basement of 687.3   Raise TF to 676.0 for Minimum Basement of 687.0   Raise TF to 676.0 for Minimum Basement of 687.0   Raise TF to 676.0 for Minimum Basement of 687.0   Raise TF to 676.0 for Minimum Basement of 687.0   Raise TF to 676.0 for Minimum Basement of 687.0   Raise TF to 676.0 for Minimum Basement of 687.0   Raise TF to 676.0 for Minimum Basement of 687.0   Raise TF to 676.0 for Minimum Basement of 687.0   Raise TF to 676.0 for Minimum Basement of 687.0   Raise TF to 676.0 for Minimum Basement of 687.0   Raise TF to 676.0 for Minimum Basement of 687.0   Raise TF to 676.0 for Minimum Basement of 687.0   Raise TF to 676.0 for Minimum Basement of 687.0   Raise				8.5	672.5	668.5	Raise TF to 677.0 for Minimum Basement of 668.0
207   667.3   675.8   8.5   671.8   667.8   667.8   Raise TF to 676.3 for Minimum Basement of 687.3     208   667.3   675.9   8.6   671.9   667.5     209   667.3   675.5   8.2   671.5   667.5     210   667.3   675   7.7   671   Raise TF to 676.3 for Minimum Basement of 687.3     211   667.3   675.3   8.0   671.3   667.3     212   667.3   675   7.7   671   Raise TF to 676.3 for Minimum Basement of 687.3     213   667.3   675   7.7   671   Raise TF to 676.3 for Minimum Basement of 687.3     214   667.3   675   7.7   671   Raise TF to 676.3 for Minimum Basement of 687.3     215   667.3   674.9   7.6   670.9   Raise TF to 675.3 for Minimum Basement of 687.3     216   667.3   674.9   7.8   671.1   Raise TF to 675.3 for Minimum Basement of 687.3     216   667.3   674   6.7   6.7   6.7     217   667.0   675.6   8.6   6.7   6.7     218   667.0   675.6   8.6   6.7   6.7     219   667.0   675.6   7.9   6.7   6.7     219   667.0   674.6   7.8   6.7   6.7     219   667.0   674.6   7.8   6.7   6.7     210   667.0   674.6   7.8   6.7   6.7     211   667.0   674.6   7.8   6.7   6.7     212   667.0   674.6   7.8   6.7   6.7     213   667.0   674.6   7.8   6.7   6.7     214   667.0   675.6   675.6   675.6   675.6   675.0     215   667.0   675.6   675.0   675.0     216   667.0   675.6   675.0     217   667.0   675.6   675.0     218   667.0   675.6   675.0     219   667.0   675.6   675.0     210   675.0   675.0     210   675.0   675.0     210   675.0   675.0     210   675.0   675.0     210   675.0   675.0     210   675.0   675.0     210   675.0   675.0     210   675.0   675.0     210   67	,		,				
208   667.3   675.9   8.6   671.9   667.9   667.9   667.3   675.5   8.2   671.5   667.5   675.3 for Minimum Basement of 687.3   687.							
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212         667.3         675         7.7         671         Raise TF to 675.3 for Minimum Basement of 667.3         Raise TF to 676.0 for Minimum Basement of 667.3         Raise TF to 676.0 for Minimum B							
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216         667.3         674         6.7         670         Raise TF to 676.3 for Minimum Basement of 667.3         to be above BFE           217         667.0         675.6         8.6         671.6         667.6         Raise TF to 675.0 for Minimum Basement of 667.0         Raise TF to 676.0 for Minimum Basement of 667.0         Raise TF to 676.0 for Minimum Basement of 667.0         Raise TF to 676.0 for Minimum Basement of 667.0         Raise TF to 676.0 for Minimum Basement of 667.0         Raise TF to 676.0 for Minimum Basement of 667.0	215	667.3	675.1	7.8	671.1	Raise TF to 675.3 for Minimum Basement of 667.3	Raise TF to 676.3 for Minimum Basement of 667.3
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Commercial Center							
	Commercial Cente	r					

#### MT-2 FORM 2 (HYDROLOGY & HYDRAULICS)

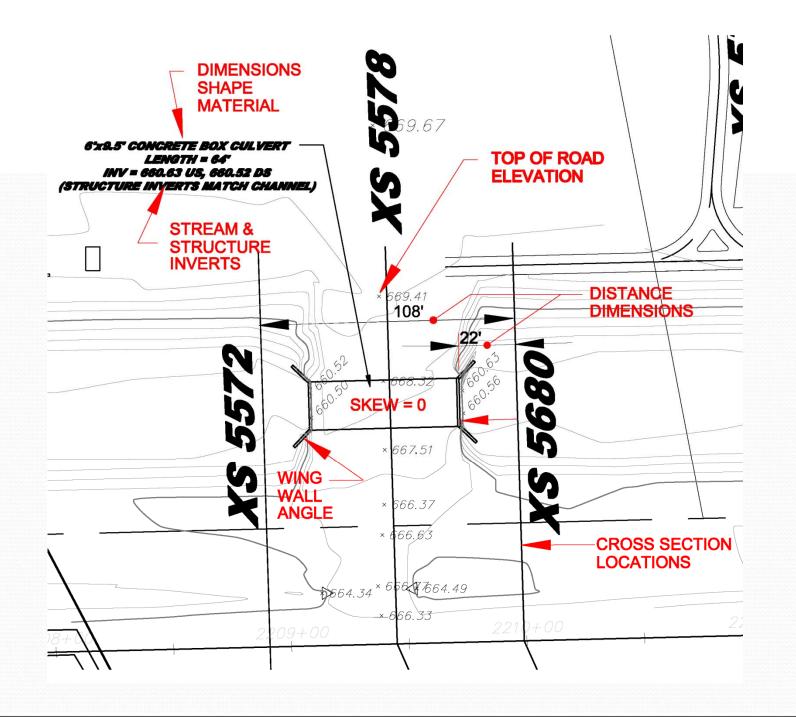
- SECTION D, COMMON REGULATORY REQUIREMENTS
- Item 3: Revisions to floodway: Requires Public Notice
- Item 4: Notification of Affected Property Owners
  - Letters provided to neighbors
  - Notification Vs Signoff (waiting period)





#### MT-2 FORM 3 - CHANNELIZATION

- List Every Structure
- Channelization



#### SUBMITTAL REQUIREMENTS

- Cover Letter
- Send LOMR Package to:

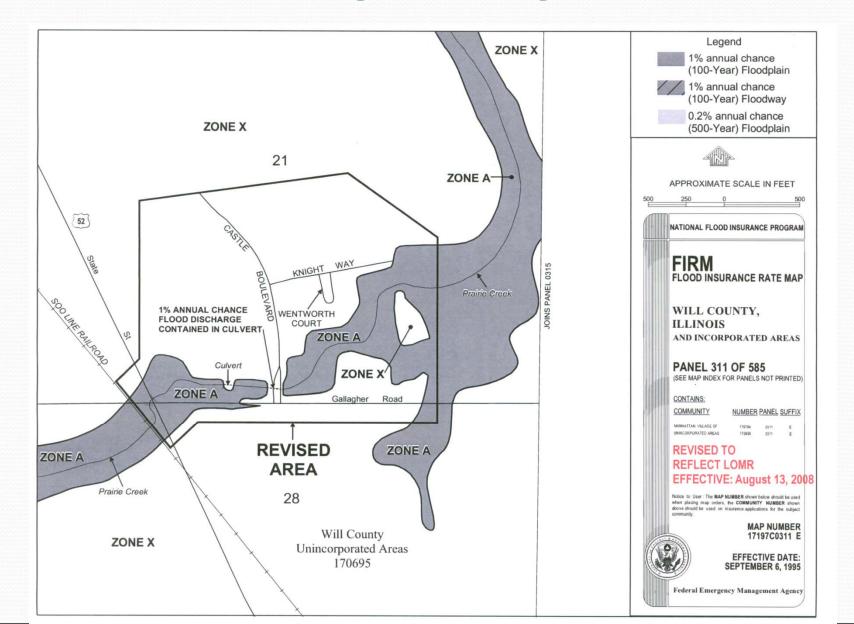
FEMA Map Coordination Contractor 3601 Eisenhower Avenue, Suite 600 Alexandria, VA 22304-6425

Send fee to:

Federal Emergency Management Agency
Revisions Fee-Collection System Administrator
P.O. Box 22787, Alexandria, VA 22304
(Include: Payment Information Form, Check made out to "National")

(Include: Payment Information Form, Check made out to "National Flood Insurance Program", copy of cover letter & MT-2 form 1)

### APPROVED LOMR



## Questions?

